Title (en)

OFF-GRID START METHOD AND SYSTEM FOR NEW ENERGY POWER GENERATION SYSTEM

Title (de)

OFF-GRID-STARTVERFAHREN UND SYSTEM FÜR EIN NEUES ENERGIEERZEUGUNGSSYSTEM

Title (fr)

PROCÉDÉ ET SYSTÈME DE DÉMARRAGE HORS-RÉSEAU POUR UN SYSTÈME DE PRODUCTION DE PUISSANCE À ÉNERGIE NOUVELLE

Publication

EP 4290726 A1 20231213 (EN)

Application

EP 21924285 A 20211108

Priority

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- CN 2021129245 W 20211108

Abstract (en)

Provided are an off-grid start method and system for a new energy power generation system. The method comprises: gradually boosting the voltage of a master according to a plurality of preset voltage given values, and slaves determining, by means of measuring a voltage of the load of a system, a target voltage given value used by the master; and the master determining, by means of monitoring an output current of the master itself, that a slave is successfully connected in parallel, and then continuing to boost the output voltage until all the slaves run in parallel. Therefore, according to the solution, no upper-layer synchronous control is required during a black-start process, and no communication between a master and slaves is required. Moreover, according to the solution, in the start process of slaves, only a slave (namely, a target slave) with a slave identifier matching the order of a target voltage given value in N voltage given values is started at the target voltage given value and is connected to a master in parallel, thereby ensuring that slaves are started and connected in parallel according to a certain sequence, and preventing the slaves from being simultaneously started in parallel.

IPC 8 full level

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CPC (source: CN EP US)

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